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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/574,695	04/05/2006	Toshiyoshi Ichikawa	04853.0131	3737	
22852 FINNEGAN.	7590 09/23/200 HENDERSON, FARAI	EXAM	EXAMINER		
LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			EVANS, GEOFFREY 8		
			ART UNIT	PAPER NUMBER	
	,	3742			
			MAIL DATE	DELIVERY MODE	
			09/23/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.	Applicant(s)		
10/574,695	ICHIKAWA ET AL.		
Examiner	Art Unit		
Geoffrey S. Evans	3742		

066 4-4 0	1					
Office Action Summary	Examiner	Art Unit				
	Geoffrey S. Evans	3742				
The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence ad	dress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL'. WHICHEVER IS LONGER, FROM THE MAILING D/. Extrasions of time may be available under the provisions of 37 CFR 1.1 after 55% (6) MONTHS from the mailing data of the communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the soil or reshorted for reply will by statute Any reply received by the Office later than three months after the mailing samed patent term dujument. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this or D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on						
	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	merits is			
closed in accordance with the practice under E						
·						
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acc		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	•.,		FR 1.121(d).			
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
		(4) (0)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority document		NI				
2. Certified copies of the priority document			01			
Copies of the certified copies of the prior	•	ed in this National	Stage			
application from the International Bureau * See the attached detailed Office action for a list						
See the attached detailed Office action for a list	or the certified copies not receive	ea.				
Attach was training						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO.413)				
Notice of Preferences Cited (F10-892)     Notice of Draftsperson's Patent Drawing Review (PT0-948)	Paper No(s)/Mail Da	ate				
3) V Information Ricologopa Statute atto (FTF/SE/FE)	5) Notice of Informal F	atent Application				

Paper No(s)/Mail Date 20060405, 20060922

- 6) Other:

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## DETAILED ACTION

The title of the invention is not descriptive. A new title is required that is clearly
indicative of the invention to which the claims are directed.

The following title is suggested: "Laser Beam Machine with Two Workpiece Position Controllers".

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et al. in U.S. Patent No. 6,153,853 in view of Japan Patent No. 10-230,393. Mauyama et al. discloses a laser beam machine with a processing scanner (element 82 or 84) that includes a angular pivot shaft (see figure 1). Japan Patent No. 10-230,393 teaches triaxial positioners (see paragraphs 7-11 and figures 1-3) with concentrated

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centers of rotation. It would have been obvious to adapt Maruyama et al. in view of Japan Patent No. 10-230,393 to precisely position the workpiece in three dimensions.

- 5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et al. in view of Japan Patent No. 10-230,393 as applied to claim 4 above, and further in view of Karube et al. in WO 94/03302. Karube et al. teach controlling the focal position of the laser beam by using a movable lens (element 20) and a mirror (element 5). It would have been obvious to adapt Maruyama et al. in view of Japan Patent No. 10-230,393 and Karube to provide this to adjust the focal position of the laser beam during processing.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hall in U.S. Patent No. 6,757,985 discloses precise positioning of an object along three dimensions. Saino et al. in U.S. Patent No. 6,614,201 discloses end effectors of interest. Nemish in U.S. Patent No. 7,159,633 has a wheel clamping assembly of interest. Bredow et al. in U.S. Patent No. 4,495,398 discloses a machine for cutting flat workpieces.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S. Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 7:00AM to 3:30 PM (flexible).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on (571)-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Geoffrey S Evans/
Primary Examiner, Art Unit 3742